

Application No. 10/024,560
Amendment dated April 30, 2004
Reply to Office Action of April 1, 2004

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Art Unit: 3753
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CLAIM SET AS AMENDED

1. (Currently Amended) A vehicle radiator apparatus device in which a radiator comprising:

an engine in a power unit supported by a vehicle body frame, said engine having a water jacket;

a heat radiation core mounted onto the engine,

the heat radiation core having first coupled protruding pieces extending from inner and outer sides of an upper part of the radiation core, and having second coupled protruding pieces extending from inner and outer sides of a lower part of the radiation core;

121 a first tank and a second tank coupled ~~through a~~ to the heat radiation core,

said first tank communicates to communicating with an inlet of a the water jacket of said engine, and said second tank communicates to communicating with an outlet of said water jacket,

said first and second tanks being made of synthetic resin, said first tank being attached to the first coupled protruding pieces extending from inner and outer sides of an upper part of the radiation core, and said second tank being attached to the second coupled protruding pieces extending from inner and outer sides of a lower part of the radiation core; and

a shroud of the radiator apparatus made of an elastic material for conducting a cooling

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wind passing through the radiator apparatus, the first tank and the second tank being mounted onto the shroud [I,]

~~said shroud of the radiator being mounted onto an engine in a power unit supported by a vehicle body frame.~~

2. (Currently Amended) The vehicle radiator ~~device~~ apparatus according to claim 1, wherein said shroud is fixed to said engine by a fastening member, and further including a conduit for communicating fluid between said radiator and said water jacket, said conduit ~~includes~~ including a first end fitted in a connecting hole provided on said radiator and a second end fitted in a connecting hole in said engine.

3. (Currently Amended) The vehicle radiator ~~device~~ apparatus according to claim 1, wherein said radiator apparatus and said shroud are connected to each other by rivets.

4. (Currently Amended) The vehicle radiator ~~device~~ apparatus according to claim 2, wherein said first and said second tank are a lower tank and a upper tank respectively, said heat radiation core being disposed between said upper tank and said lower tank through which said tanks are integrally combined while their interiors communicate with each other.

5. (Currently Amended) The vehicle radiator ~~device~~ apparatus according to claim 4, said first and second coupled protruding pieces being ~~coupled~~ joined by sealing members to said upper tank and said lower tank.

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6. (Currently Amended) The vehicle radiator device apparatus according to claim 4,
further comprising a water cap arranged on the upper tank,

wherein said radiator apparatus is inclined toward a forward direction of said the
vehicle by an angle β with respect to the horizontal so that a said water cap is arranged
disposed at an upper most position of said upper tank, and a connecting pipe for connecting
to said inlet of said water jacket is arranged at a lowermost position of said lower tank.

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7. (Currently Amended) The vehicle radiator device apparatus according to claim 4,
wherein elastic sealing members are provided at both end portions of said conduit for
connecting to said connecting hole of said water jacket and to said connecting hole of said
upper tank respectively, said elastic sealing members allowing for relative displacement
between the engine and the radiator apparatus when said engine vibrates.

8. (Currently Amended) A vehicle radiator device apparatus ~~in which a radiator~~
comprising:

a vehicle body frame;

an engine in a power unit rockably coupled to the vehicle body frame in an up-and-
down direction through a pivot shaft and supported through a rear shock absorber, the engine
having a water jacket;

a heat radiation core mounted onto the engine.

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the heat radiation core having first coupled protruding pieces extending from inner and outer sides of an upper part of the heat radiation core, and having second coupled protruding pieces extending from inner and outer sides of a lower part of the heat radiation core;

a first tank and a second tank coupled through ~~a~~ to the heat radiation core,

B1 cont said first tank ~~communicates to~~ communicating with an inlet of [[a]] the water jacket of said engine and said second tank ~~communicates to~~ communicating with an outlet of said water jacket,

said first and second tanks being made of synthetic resin, said first tank being attached to the first coupled protruding pieces ~~extending from inner and outer sides of an upper part of the radiation core,~~ and said second tank being attached to the second coupled protruding pieces ~~extending from inner and outer sides of a lower part of the radiation core;~~ and

a shroud of the radiator apparatus made of elastic material for conducting a cooling wind ~~passing through the radiator apparatus,~~ the first tank and the second tank being mounted onto the shroud [[.]]

~~said shroud of the radiator being mounted onto an engine in a power unit, which is rockably coupled to a vehicle body frame in an up and down direction through a pivot shaft and is supported through a rear shock absorber.~~

9. (Currently Amended) The vehicle radiator ~~device~~ apparatus according to claim 8,

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wherein said shroud is fixed to said engine by a fastening member, and further including a conduit for communicating fluid between said radiator and said water jacket, said conduit ~~includes~~ including a first end fitted in a connecting hole provided on said radiator and a second end fitted in a connecting hole in said engine.

10. (Currently Amended) The vehicle radiator ~~device~~ apparatus according to claim 8, wherein said radiator apparatus and said shroud are connected to each other by rivets.

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11. (Currently Amended) The vehicle radiator ~~device~~ apparatus according to claim 9, wherein said first and said second tank are a lower tank and an upper tank respectively, said heat radiation core being disposed between said upper tank and said lower tank through which said tanks are integrally combined while their interiors communicate with each other.

12. (Currently Amended) The vehicle radiator ~~device~~ apparatus according to claim 11, said first and second coupled protruding pieces being ~~coupled~~ joined by sealing members to said upper tank and to said lower tank.

13. (Currently Amended) The vehicle radiator ~~device~~ apparatus according to claim 11, further comprising a water cap arranged on said upper tank,

wherein said radiator apparatus is inclined toward a forward direction of ~~said~~ the vehicle by an angle β with respect to the horizontal so that ~~a~~ the water cap is arranged disposed at an upper most position of said upper tank, and a connecting pipe for connecting

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to said inlet of said water jacket is arranged at a lowermost position of said lower tank.

14. (Currently Amended) The vehicle radiator ~~device~~ apparatus according to claim 11, wherein elastic sealing members are provided at both end portions of said conduit for connecting to said connecting hole of said water jacket and to said connecting hole of said upper tank respectively, said elastic sealing members allowing for relative displacement between the engine and the radiator apparatus when said engine vibrates.

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